

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P#

Luminaire Tested: **8SNLED-LD5-136SL-RM-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33524)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNLED-LD5-136SL-RM-UNV-L930-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
METALIC FINISH REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

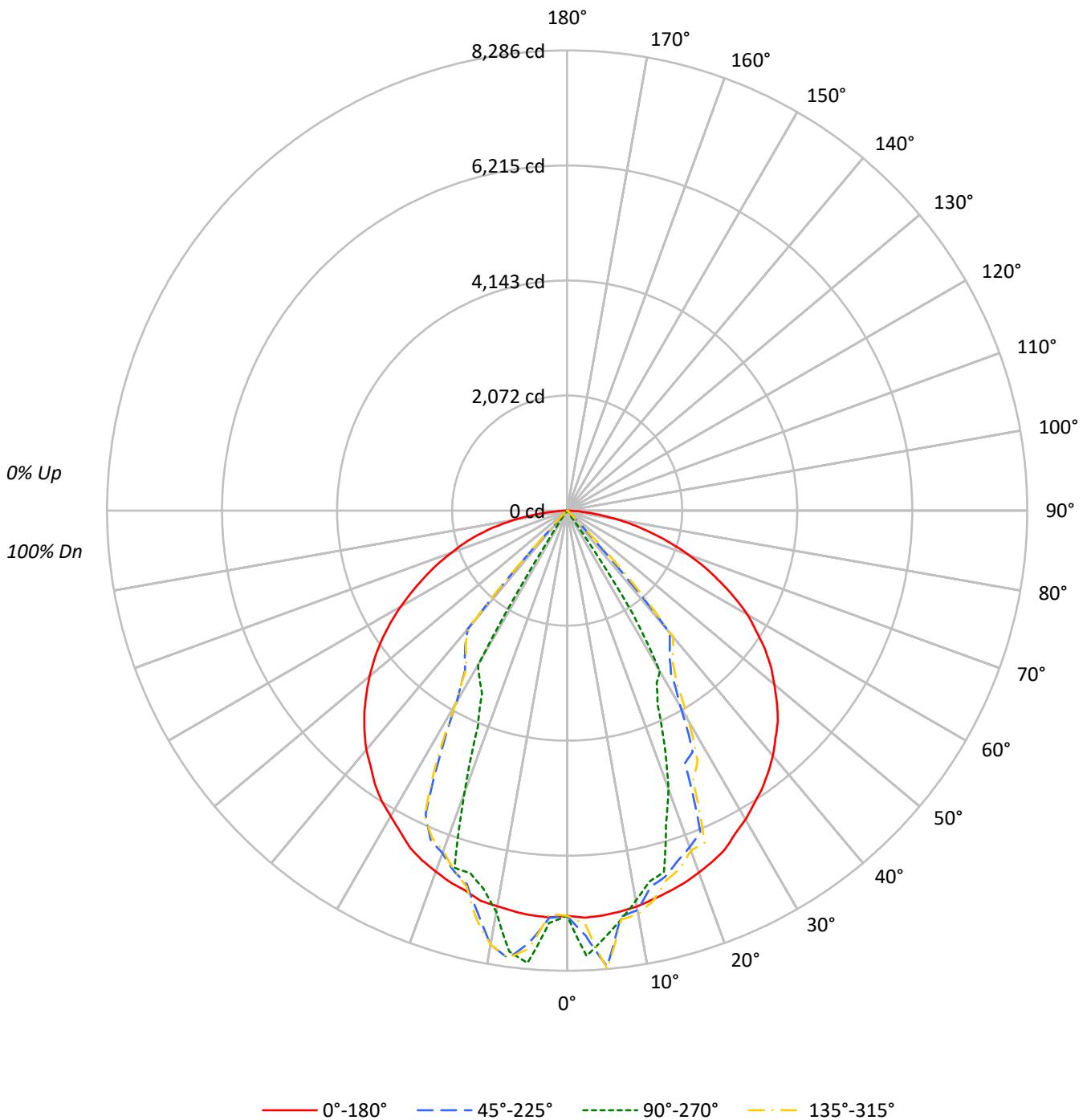
Lumens per Lamp: N/A
Luminaire Lumens: 10375.0 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 0.81 / 0.97
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 110
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90					90			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81					81			
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72					72			
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65					65			
5	85	75	68	63	84	74	68	63	72	66	62	71	65	61	69	64	61	59					59			
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	55	54					54			
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49					49			
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45					45			
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42					42			
10	63	52	45	41	62	52	45	41	51	45	41	50	44	41	49	44	40	39					39			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	29482	29482	29482	29482
5°	29642	30321	29634	32110
10°	29612	27437	29594	28230
15°	29573	25610	29500	25676
20°	29651	20172	29567	20420
25°	29784	14598	29638	13775
30°	29698	12805	29384	12310
35°	29842	282	29404	342
40°	30007	61	29288	61
45°	30185	37	29052	27
50°	30040	29	28662	29
55°	29967	20	28126	20
60°	29531	22	27223	22
65°	28157	35	26153	23
70°	26343	38	25078	38
75°	23614	43	24000	43
80°	19658	49	20782	49
85°	12316	58	12575	58



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	732.0	7.1
10°-20°	1996.7	19.2
20°-30°	2540.8	24.5
30°-40°	2146.3	20.7
40°-50°	1403.2	13.5
50°-60°	884.1	8.5
60°-70°	470.7	4.5
70°-80°	171.6	1.7
80°-90°	29.5	0.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	5269.6	50.8
0°-40°	7415.9	71.5
0°-60°	9703.3	93.5
0°-90°	10375.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10375.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	7296	7296	7296	7296	7296	
5°	7318	7721	7316	8177	7318	696
15°	7099	6738	7082	6756	7099	2007
25°	6729	3848	6696	3631	6729	3095
35°	6116	72	6026	88	6116	3826
45°	5365	9	5164	7	5365	4126
55°	4349	4	4082	4	4349	3875
65°	3044	7	2827	4	3044	3015
75°	1601	7	1627	7	1601	1699
85°	313	7	320	7	313	396
90°	0	0	0	0	0	



TEST NUMBER: P#

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CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	7296.5	7296.5	7296.5	7296.5	7296.5	7296.5	7296.5	7296.5	7296.5	7296.5	7296.5
2.5°	7338.1	7342.5	7344.7	7349.0	7355.6	7357.8	7362.2	7357.8	7357.8	7357.8	7357.8
5°	7318.4	7327.1	7333.7	7342.5	7357.8	7360.0	7377.5	7379.7	7388.4	7406.0	7419.1
7.5°	7285.5	7294.3	7307.4	7329.3	7351.2	7375.3	7406.0	7438.8	7484.8	7528.6	7583.3
10°	7237.4	7248.3	7263.6	7283.3	7390.6	7406.0	7473.9	7568.0	7594.3	7732.2	7835.2
12.5°	7167.3	7204.5	7243.9	7261.4	7364.4	7526.4	7754.1	7708.2	7657.8	8108.9	8102.3
15°	7099.4	7149.8	7130.0	7272.4	7366.6	7649.0	7552.7	7758.5	8135.2	8043.2	8047.6
17.5°	7027.1	7038.1	7147.6	7265.8	7434.4	7579.0	7697.2	7979.7	8054.2	8060.7	7979.7
20°	6935.2	6987.7	7147.6	7254.9	7539.5	7607.4	7863.6	8008.2	7977.5	7903.1	7765.1
22.5°	6841.0	7000.9	7162.9	7314.0	7513.3	7695.0	7822.0	7889.9	7730.1	7436.6	7279.0
25°	6729.3	6823.5	7035.9	7257.1	7506.7	7611.8	7686.3	7576.8	7368.7	7106.0	6841.0
27.5°	6556.3	6707.4	6979.0	7228.6	7454.1	7581.2	7460.7	7197.9	6862.9	6689.9	6569.5
30°	6422.7	6619.8	6843.2	7084.1	7318.4	7392.8	7086.3	6786.2	6556.3	6383.3	6357.0
32.5°	6260.7	6541.0	6753.4	6983.3	7180.4	7081.9	6784.1	6396.5	6205.9	6140.3	6166.5
35°	6116.2	6328.6	6606.7	6832.2	6974.6	6753.4	6282.6	6041.7	5949.7	5987.0	5938.8
37.5°	5943.2	6223.5	6479.7	6674.6	6626.4	6293.5	5895.0	5741.7	5752.7	5722.0	5630.0
40°	5763.6	6030.8	6297.9	6481.9	6313.2	5805.2	5540.2	5507.4	5514.0	5415.4	5284.0
42.5°	5553.4	5796.5	6063.6	6230.0	5866.5	5470.2	5290.6	5295.0	5238.0	5100.1	5030.0
45°	5365.1	5588.4	5866.5	5881.9	5435.1	5104.5	5051.9	4995.0	4868.0	4822.0	4769.4
47.5°	5124.2	5371.6	5601.6	5518.3	5012.5	4806.7	4767.2	4642.4	4578.9	4543.9	4500.1
50°	4868.0	5117.6	5327.8	5091.3	4613.9	4565.8	4436.6	4338.0	4294.2	4257.0	4217.6
52.5°	4624.9	4830.7	5045.3	4638.0	4307.4	4261.4	4114.7	4057.7	4013.9	3972.3	3963.6
55°	4349.0	4530.7	4677.5	4206.6	4013.9	3906.6	3801.5	3762.1	3720.5	3700.8	3733.6
57.5°	4035.8	4241.7	4219.8	3781.8	3696.4	3540.9	3501.5	3475.2	3444.6	3457.7	3184.0
60°	3753.3	3911.0	3803.7	3470.9	3326.3	3221.2	3186.2	3168.7	3186.2	2919.0	2566.5
62.5°	3405.2	3582.5	3365.8	3107.4	2954.1	2903.7	2873.0	2897.1	2640.9	2347.5	2262.1
65°	3043.8	3236.6	2916.8	2717.6	2621.2	2577.4	2575.2	2371.6	2119.7	2005.9	2005.9
67.5°	2695.7	2894.9	2483.3	2316.8	2279.6	2284.0	2157.0	1848.2	1778.1	1701.5	1480.3
70°	2325.6	2500.8	2051.9	1951.1	1929.2	1913.9	1605.1	1521.9	1438.7	1235.1	1217.5
72.5°	1957.7	2043.1	1648.9	1624.8	1620.5	1346.7	1285.4	1143.1	1046.7	1022.6	1011.7
75°	1600.8	1574.5	1302.9	1324.8	1116.8	1020.5	921.9	838.7	825.6	816.8	203.7
77.5°	1263.5	1132.1	1027.0	893.4	799.3	678.8	659.1	646.0	424.8	153.3	124.8
80°	919.7	733.6	683.2	580.3	494.9	475.2	486.1	148.9	118.3	98.5	85.4
82.5°	584.7	468.6	383.2	335.0	326.3	142.3	105.1	85.4	74.5	63.5	52.6
85°	313.1	208.0	192.7	162.0	96.4	65.7	54.7	41.6	35.0	28.5	26.3
87.5°	98.5	83.2	67.9	54.7	32.8	21.9	17.5	15.3	13.1	10.9	10.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	11°	12°	13°	14°	15°	16°	17°	18°	19°	20°	25°
0°	7296.5	7296.5	7296.5	7296.5	7296.5	7296.5	7296.5	7296.5	7296.5	7296.5	7296.5
2.5°	7353.4	7357.8	7355.6	7362.2	7362.2	7370.9	7377.5	7384.1	7397.2	7403.8	7454.1
5°	7447.6	7458.5	7491.4	7522.0	7559.3	7570.2	7633.7	7649.0	7723.5	7732.2	7977.5
7.5°	7657.8	7699.4	7778.2	7857.1	7935.9	7986.3	8073.9	8128.6	8187.7	8240.3	8435.2
10°	7911.8	7981.9	8058.5	8137.4	8183.4	8279.7	8332.3	8341.0	8325.7	8240.3	7925.0
12.5°	8161.5	8231.5	8198.7	8214.0	8268.8	8097.9	8122.0	7999.4	8084.8	7662.2	7349.0
15°	8126.4	8122.0	8041.0	7778.2	7822.0	7495.7	7364.4	7263.6	7344.7	7300.9	7252.7
17.5°	8021.3	7822.0	7681.9	7366.6	7233.0	7141.0	7143.2	7145.4	7106.0	7147.6	7024.9
20°	7576.8	7353.4	7145.4	7033.7	6994.3	6928.6	6961.4	6928.6	6930.8	6943.9	6755.6
22.5°	6985.5	6917.6	6797.2	6832.2	6819.1	6878.2	6834.4	6766.5	6788.4	6689.9	6547.6
25°	6746.8	6668.0	6663.6	6676.8	6657.0	6630.8	6591.4	6488.4	6481.9	6451.2	6385.5
27.5°	6506.0	6510.3	6523.5	6484.1	6414.0	6361.4	6302.3	6251.9	6271.6	6236.6	6146.8
30°	6339.5	6337.3	6258.5	6223.5	6094.3	6096.5	6081.1	6050.5	6030.8	6033.0	5976.0
32.5°	6103.0	6035.1	5945.4	5901.6	5890.6	5851.2	5820.5	5827.1	5842.4	5787.7	5846.8
35°	5860.0	5719.8	5706.7	5669.4	5634.4	5608.1	5619.1	5575.3	5573.1	5566.5	5084.8
37.5°	5533.7	5465.8	5459.2	5419.8	5395.7	5389.1	5347.5	5354.1	5373.8	5408.9	4335.8
40°	5264.3	5203.0	5187.7	5185.5	5132.9	5128.6	5139.5	5181.1	5209.6	4990.6	4132.2
42.5°	4975.3	4979.6	4931.5	4900.8	4907.4	4927.1	4979.6	4835.1	4189.1	3992.0	3777.4
45°	4727.8	4705.9	4679.6	4670.9	4727.8	4688.4	4110.3	3792.8	3716.1	3707.4	3105.2
47.5°	4469.4	4462.9	4451.9	4458.5	4134.4	3685.5	3554.1	3512.5	3525.6	3516.8	2667.2
50°	4208.8	4217.6	4217.6	3683.3	3381.1	3306.6	3317.6	3354.8	3122.7	2914.6	2485.4
52.5°	3983.3	3915.4	3354.8	3162.1	3094.2	3127.1	3048.2	2757.0	2546.8	2424.1	2299.3
55°	3565.0	3065.7	2940.9	2910.3	2934.4	2643.1	2463.5	2275.2	2220.5	2207.3	2135.1
57.5°	2805.2	2704.4	2715.4	2592.7	2314.6	2150.4	2078.1	2051.9	2027.8	2010.3	175.2
60°	2481.1	2509.5	2297.1	2034.3	1922.7	1900.8	1883.2	1859.2	1854.8	1824.1	111.7
62.5°	2270.8	1997.1	1813.2	1747.5	1721.2	1714.6	1681.8	1670.8	1419.0	194.9	83.2
65°	1712.4	1600.8	1565.7	1550.4	1521.9	1521.9	1263.5	199.3	162.0	140.1	74.5
67.5°	1397.1	1388.3	1370.8	1351.1	919.7	192.7	168.6	146.7	127.0	111.7	65.7
70°	1182.5	1178.1	1073.0	197.1	164.2	144.5	127.0	113.9	105.1	94.2	59.1
72.5°	970.1	197.1	166.4	144.5	124.8	113.9	102.9	92.0	83.2	76.6	48.2
75°	151.1	133.6	118.3	107.3	98.5	87.6	78.8	72.3	70.1	61.3	32.8
77.5°	109.5	94.2	85.4	76.6	67.9	61.3	52.6	46.0	41.6	35.0	24.1
80°	76.6	67.9	61.3	50.4	43.8	37.2	32.8	28.5	26.3	21.9	10.9
82.5°	43.8	37.2	32.8	26.3	24.1	19.7	17.5	15.3	15.3	10.9	10.9
85°	19.7	19.7	15.3	13.1	10.9	10.9	10.9	8.8	8.8	6.6	6.6
87.5°	8.8	8.8	8.8	8.8	8.8	6.6	6.6	6.6	6.6	6.6	4.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°
0°	7296.5	7296.5	7296.5	7296.5	7296.5	7296.5	7296.5	7296.5	7296.5	7296.5	7296.5
2.5°	7524.2	7552.7	7607.4	7664.4	7600.9	7828.6	7811.1	7887.7	7929.3	7949.0	7995.0
5°	8194.3	8321.3	8362.9	8238.1	8165.8	8091.4	7922.8	7795.8	7811.1	7769.5	7618.4
7.5°	8181.2	7909.6	7543.9	7377.5	7364.4	7344.7	7397.2	7427.9	7432.2	7430.1	7425.7
10°	7489.2	7349.0	7324.9	7303.0	7311.8	7230.8	7193.6	7088.4	7145.4	7114.7	7125.7
12.5°	7279.0	7246.1	7116.9	6937.3	7044.6	6963.6	6917.6	6948.3	6913.3	6880.4	6869.5
15°	7154.1	6941.7	6869.5	6825.7	6795.0	6777.5	6792.8	6757.8	6746.8	6740.3	6755.6
17.5°	6895.7	6810.3	6731.5	6615.4	6617.6	6611.1	6654.9	6720.6	6724.9	6387.7	6083.3
20°	6692.1	6622.0	6521.3	6449.0	6547.6	6372.4	5695.7	5373.8	5323.4	5323.4	5332.2
22.5°	6530.0	6374.6	6381.1	6267.3	5345.3	5157.0	5161.4	5181.1	5091.3	4784.8	4751.9
25°	6308.9	6284.8	5805.2	5016.9	5023.4	4876.7	4651.2	4333.7	3989.8	3989.8	3932.9
27.5°	6142.4	5632.2	4931.5	4898.6	4405.9	4095.0	3902.3	3611.0	3571.6	3534.4	3538.7
30°	6000.1	4765.0	4782.6	4095.0	3731.5	3473.1	3457.7	3409.5	3385.5	3378.9	3354.8
32.5°	4743.1	4640.2	4003.0	3486.2	3343.9	3302.2	3282.5	3227.8	3225.6	3184.0	2894.9
35°	4447.5	4073.1	3350.4	3210.3	3168.7	3129.3	3096.4	2078.1	245.3	98.5	85.4
37.5°	4110.3	3403.0	3098.6	3035.1	2995.7	2213.9	221.2	76.6	54.7	39.4	35.0
40°	3484.0	3039.5	2943.1	2873.0	1184.7	76.6	48.2	37.2	21.9	19.7	17.5
42.5°	2938.7	2864.3	2761.4	840.9	87.6	37.2	24.1	17.5	15.3	15.3	13.1
45°	2750.4	2684.7	1112.4	83.2	54.7	17.5	15.3	15.3	13.1	8.8	8.8
47.5°	2575.2	2266.5	100.7	52.6	35.0	15.3	13.1	8.8	8.8	8.8	6.6
50°	2389.1	124.8	70.1	39.4	21.9	8.8	8.8	8.8	8.8	6.6	6.6
52.5°	446.7	87.6	56.9	35.0	10.9	8.8	8.8	8.8	6.6	6.6	6.6
55°	105.1	70.1	52.6	30.7	8.8	8.8	8.8	6.6	6.6	6.6	4.4
57.5°	78.8	52.6	41.6	28.5	8.8	6.6	6.6	6.6	6.6	6.6	4.4
60°	65.7	37.2	32.8	26.3	6.6	6.6	6.6	6.6	6.6	6.6	4.4
62.5°	46.0	30.7	24.1	19.7	6.6	6.6	6.6	6.6	6.6	6.6	6.6
65°	37.2	24.1	19.7	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
67.5°	32.8	19.7	13.1	4.4	6.6	6.6	6.6	6.6	6.6	6.6	6.6
70°	26.3	6.6	6.6	4.4	6.6	6.6	6.6	6.6	6.6	6.6	6.6
72.5°	21.9	6.6	4.4	4.4	6.6	6.6	6.6	6.6	6.6	6.6	6.6
75°	21.9	10.9	4.4	4.4	6.6	6.6	8.8	8.8	6.6	6.6	6.6
77.5°	15.3	10.9	4.4	4.4	6.6	6.6	8.8	8.8	6.6	6.6	6.6
80°	8.8	10.9	4.4	6.6	6.6	13.1	15.3	8.8	6.6	6.6	6.6
82.5°	8.8	10.9	13.1	13.1	6.6	10.9	13.1	10.9	8.8	6.6	6.6
85°	8.8	6.6	8.8	10.9	6.6	10.9	10.9	8.8	8.8	6.6	6.6
87.5°	4.4	6.6	6.6	8.8	8.8	8.8	10.9	8.8	8.8	8.8	6.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	85°	90°	95°	100°	105°	110°	115°	120°	125°	130°	135°
0°	7296.5	7296.5	7296.5	7296.5	7296.5	7296.5	7296.5	7296.5	7296.5	7296.5	7296.5
2.5°	8016.9	8025.7	7887.7	7839.6	7881.2	7872.4	7835.2	7697.2	7681.9	7589.9	7456.3
5°	7662.2	7721.3	7649.0	7773.9	7714.7	7773.9	7953.4	8036.6	8172.4	8255.6	8286.3
7.5°	7414.7	7427.9	7427.9	7438.8	7449.8	7452.0	7438.8	7430.1	7392.8	7346.8	7430.1
10°	7114.7	7130.0	7156.3	7151.9	7149.8	7195.7	7206.7	7300.9	7296.5	7314.0	7377.5
12.5°	6959.2	6841.0	6948.3	6919.8	6959.2	6897.9	7011.8	6992.1	6998.7	7051.2	7187.0
15°	6700.8	6738.1	6764.4	6764.4	6779.7	6766.5	6753.4	6843.2	6897.9	6900.1	6891.4
17.5°	6203.8	5921.3	6210.3	6135.9	6729.3	6744.6	6694.3	6652.7	6652.7	6685.5	6755.6
20°	5325.6	5332.2	5334.4	5362.9	5397.9	5395.7	5397.9	6260.7	6670.2	6576.0	6512.5
22.5°	4668.7	4587.7	4738.8	4727.8	4916.1	5124.2	5323.4	5303.7	5316.9	5925.6	6473.1
25°	3742.4	3847.5	3762.1	3799.3	4011.7	4259.2	4412.5	4813.2	5249.0	5218.3	5360.7
27.5°	3523.4	3495.0	3534.4	3534.4	3562.8	3595.7	3681.1	3906.6	4294.2	4701.5	5086.9
30°	3315.4	3339.5	3343.9	3383.3	3405.2	3427.1	3440.2	3525.6	3613.2	3895.7	4370.9
32.5°	2489.8	2183.2	2873.0	3059.2	3216.8	3254.1	3280.3	3315.4	3378.9	3420.5	3659.2
35°	72.3	72.3	76.6	87.6	111.7	753.3	2868.7	3162.1	3203.7	3256.3	3300.1
37.5°	35.0	26.3	30.7	32.8	39.4	54.7	78.8	245.3	2730.7	3087.6	3135.8
40°	15.3	15.3	15.3	15.3	17.5	21.9	32.8	54.7	83.2	2196.4	2962.8
42.5°	13.1	13.1	13.1	13.1	13.1	13.1	15.3	19.7	39.4	94.2	1554.8
45°	8.8	8.8	6.6	8.8	8.8	10.9	13.1	13.1	17.5	59.1	107.3
47.5°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	10.9	13.1	39.4	56.9
50°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	30.7	39.4
52.5°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	13.1	35.0
55°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	6.6	6.6	8.8	30.7
57.5°	4.4	4.4	4.4	4.4	4.4	6.6	4.4	4.4	6.6	6.6	28.5
60°	4.4	4.4	4.4	4.4	4.4	6.6	6.6	6.6	6.6	6.6	26.3
62.5°	6.6	6.6	4.4	6.6	4.4	4.4	6.6	6.6	6.6	6.6	17.5
65°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	4.4	6.6
67.5°	6.6	6.6	6.6	6.6	4.4	6.6	4.4	6.6	6.6	4.4	4.4
70°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	4.4	4.4	4.4	4.4
72.5°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	4.4	4.4	4.4	4.4
75°	6.6	6.6	6.6	6.6	6.6	6.6	8.8	8.8	4.4	4.4	4.4
77.5°	6.6	6.6	6.6	6.6	6.6	6.6	10.9	13.1	10.9	10.9	4.4
80°	6.6	6.6	6.6	6.6	6.6	6.6	10.9	10.9	10.9	10.9	15.3
82.5°	6.6	6.6	6.6	6.6	6.6	6.6	8.8	8.8	8.8	8.8	10.9
85°	6.6	6.6	6.6	6.6	6.6	6.6	8.8	8.8	8.8	6.6	8.8
87.5°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	8.8	6.6	6.6	6.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	140°	145°	150°	155°	160°	161°	162°	163°	164°	165°	166°
0°	7296.5	7296.5	7296.5	7296.5	7296.5	7296.5	7296.5	7296.5	7296.5	7296.5	7296.5
2.5°	7467.3	7392.8	7368.7	7318.4	7314.0	7318.4	7307.4	7292.1	7300.9	7285.5	7272.4
5°	8303.8	8104.5	7975.3	7802.3	7563.6	7511.1	7497.9	7423.5	7397.2	7388.4	7353.4
7.5°	7627.1	7990.6	8209.6	8284.1	8003.8	7938.1	7861.4	7800.1	7741.0	7629.3	7561.4
10°	7327.1	7344.7	7554.9	7800.1	8198.7	8253.4	8295.0	8161.5	8124.2	7839.6	7778.2
12.5°	7257.1	7259.2	7283.3	7432.2	7745.4	7780.4	7927.1	8006.0	8102.3	8157.1	8113.3
15°	6937.3	7114.7	7246.1	7259.2	7287.7	7349.0	7392.8	7666.6	7782.6	8093.6	8076.1
17.5°	6788.4	6845.4	7035.9	7191.4	7165.1	7143.2	7178.2	7215.5	7327.1	7638.1	7633.7
20°	6541.0	6722.7	6825.7	6987.7	7134.4	7141.0	7101.6	7079.7	7035.9	7086.3	7132.2
22.5°	6435.9	6464.3	6657.0	6770.9	6937.3	6996.5	7005.2	7007.4	6983.3	6957.1	6943.9
25°	6424.9	6335.1	6433.7	6576.0	6698.7	6762.2	6834.4	6858.5	6849.8	6849.8	6836.6
27.5°	5257.8	6306.7	6254.1	6348.3	6497.2	6541.0	6578.2	6652.7	6698.7	6731.5	6746.8
30°	5008.1	5196.4	6114.0	6127.1	6278.2	6273.8	6315.4	6376.8	6435.9	6512.5	6532.2
32.5°	4430.0	4892.1	5597.2	5905.9	6063.6	6078.9	6100.8	6118.4	6173.1	6258.5	6333.0
35°	3549.7	4456.3	4795.7	5800.8	5829.3	5860.0	5873.1	5914.7	5932.2	5967.3	6033.0
37.5°	3212.5	3683.3	4600.8	5016.9	5559.9	5586.2	5656.3	5673.8	5702.3	5730.8	5781.1
40°	3017.6	3146.8	3830.0	4480.4	5343.2	5360.7	5384.8	5428.6	5430.8	5463.6	5509.6
42.5°	2862.1	2945.3	3144.6	4278.9	5189.9	5187.7	5130.7	5159.2	5172.4	5207.4	5270.9
45°	2286.2	2763.6	2890.6	3495.0	4132.2	4430.0	5001.5	4907.4	4905.2	4918.3	4986.2
47.5°	116.1	2599.3	2689.1	2884.0	3902.3	3913.2	3987.7	4613.9	4710.3	4679.6	4686.2
50°	78.8	179.6	2505.2	2594.9	3363.6	3635.1	3689.8	3718.3	4079.6	4482.6	4416.9
52.5°	61.3	102.9	1535.1	2408.8	2732.9	2932.2	3284.7	3486.2	3508.1	3670.1	4219.8
55°	54.7	78.8	166.4	2222.7	2323.4	2367.2	2573.0	2925.6	3210.3	3295.7	3302.2
57.5°	48.2	72.3	113.9	1005.1	2113.2	2121.9	2157.0	2279.6	2535.8	2770.1	3035.1
60°	43.8	63.5	89.8	173.0	1920.5	1942.4	1948.9	1981.8	2012.4	2172.3	2476.7
62.5°	26.3	50.4	78.8	124.8	1519.7	1745.3	1743.1	1765.0	1793.5	1811.0	1872.3
65°	21.9	39.4	67.9	105.1	186.1	232.1	1410.2	1567.9	1585.4	1609.5	1620.5
67.5°	19.7	35.0	50.4	83.2	140.1	159.9	183.9	227.7	1243.8	1401.5	1423.4
70°	17.5	24.1	41.6	70.1	113.9	122.6	138.0	157.7	186.1	229.9	1125.6
72.5°	10.9	17.5	28.5	50.4	87.6	98.5	107.3	120.4	133.6	159.9	183.9
75°	4.4	13.1	24.1	37.2	67.9	74.5	81.0	89.8	100.7	118.3	131.4
77.5°	4.4	10.9	19.7	26.3	43.8	50.4	59.1	65.7	74.5	83.2	96.4
80°	15.3	8.8	13.1	19.7	30.7	32.8	37.2	41.6	48.2	54.7	63.5
82.5°	10.9	13.1	15.3	13.1	15.3	19.7	21.9	26.3	28.5	32.8	35.0
85°	8.8	8.8	10.9	10.9	10.9	10.9	10.9	10.9	13.1	15.3	19.7
87.5°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	8.8	8.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	167°	168°	169°	170°	171°	172°	173°	174°	175°	176°	177°
0°	7296.5	7296.5	7296.5	7296.5	7296.5	7296.5	7296.5	7296.5	7296.5	7296.5	7296.5
2.5°	7272.4	7268.0	7254.9	7254.9	7252.7	7261.4	7268.0	7274.6	7272.4	7285.5	7272.4
5°	7327.1	7316.2	7296.5	7279.0	7272.4	7276.8	7270.2	7276.8	7268.0	7279.0	7259.2
7.5°	7478.2	7441.0	7364.4	7333.7	7294.3	7292.1	7272.4	7268.0	7254.9	7254.9	7230.8
10°	7745.4	7565.8	7543.9	7452.0	7419.1	7259.2	7294.3	7235.2	7228.6	7200.1	7189.2
12.5°	7964.4	7824.2	7782.6	7701.6	7609.6	7285.5	7357.8	7230.8	7224.2	7167.3	7108.2
15°	7968.8	8049.8	7935.9	7712.5	7692.8	7469.5	7322.8	7279.0	7222.0	7051.2	7079.7
17.5°	7712.5	7898.7	7953.4	7905.2	7765.1	7614.0	7408.2	7320.6	7149.8	7073.1	7020.6
20°	7296.5	7484.8	7719.1	7734.4	7822.0	7714.7	7445.4	7303.0	7097.2	6963.6	6919.8
22.5°	6965.8	7103.8	7373.1	7497.9	7605.2	7642.5	7471.7	7261.4	7005.2	6876.0	6849.8
25°	6790.6	6821.3	6902.3	7049.0	7285.5	7456.3	7480.4	7257.1	7123.5	6841.0	6692.1
27.5°	6727.1	6700.8	6668.0	6742.5	6919.8	7127.9	7265.8	7303.0	6970.2	6700.8	6551.9
30°	6565.1	6580.4	6530.0	6503.8	6619.8	6834.4	7079.7	7141.0	6884.8	6606.7	6435.9
32.5°	6365.8	6392.1	6400.8	6354.9	6330.8	6479.7	6744.6	6891.4	6878.2	6473.1	6282.6
35°	6116.2	6190.6	6210.3	6212.5	6173.1	6149.0	6302.3	6606.7	6722.7	6411.8	6135.9
37.5°	5853.4	5875.3	5982.6	6011.1	6011.1	5938.8	6052.7	6295.7	6457.8	6273.8	5956.3
40°	5524.9	5595.0	5695.7	5746.1	5796.5	5803.0	5739.5	5910.3	6177.5	6131.5	5787.7
42.5°	5286.2	5332.2	5393.5	5461.4	5564.3	5590.6	5524.9	5555.6	5833.7	5954.1	5568.7
45°	5008.1	5069.4	5086.9	5161.4	5268.7	5345.3	5343.2	5279.7	5503.0	5651.9	5408.9
47.5°	4723.4	4782.6	4813.2	4850.4	4929.3	5027.8	5082.6	5054.1	5097.9	5389.1	5196.4
50°	4430.0	4462.9	4524.2	4565.8	4618.3	4675.3	4806.7	4832.9	4771.6	5003.7	4962.1
52.5°	4151.9	4162.8	4204.5	4246.1	4316.1	4357.7	4462.9	4541.7	4537.3	4605.2	4701.5
55°	3935.1	3886.9	3895.7	3928.5	3974.5	4038.0	4097.2	4219.8	4261.4	4274.5	4427.8
57.5°	3074.5	3569.4	3613.2	3611.0	3665.8	3694.2	3749.0	3830.0	3978.9	3946.1	4116.9
60°	2794.2	2849.0	3262.8	3311.0	3330.7	3357.0	3422.7	3497.1	3606.6	3676.7	3751.2
62.5°	2130.7	2463.5	2588.4	2954.1	3011.0	3026.3	3070.1	3105.2	3219.0	3378.9	3348.2
65°	1648.9	1791.3	2172.3	2321.2	2632.2	2671.6	2732.9	2770.1	2803.0	2986.9	2995.7
67.5°	1425.6	1447.5	1550.4	1837.3	2034.3	2338.7	2376.0	2408.8	2459.2	2590.6	2671.6
70°	1217.5	1243.8	1272.3	1296.4	1552.6	1754.0	2036.5	2047.5	2080.3	2167.9	2351.9
72.5°	229.9	1040.2	1057.7	1073.0	1101.5	1235.1	1504.4	1723.4	1736.5	1778.1	1946.7
75°	155.5	181.8	249.6	858.4	886.9	895.6	941.6	1215.3	1416.8	1425.6	1500.0
77.5°	111.7	124.8	151.1	179.6	457.7	687.6	698.6	748.9	957.0	1108.0	1121.2
80°	76.6	85.4	100.7	113.9	140.1	183.9	508.0	523.4	549.6	757.7	797.1
82.5°	43.8	50.4	59.1	72.3	83.2	105.1	135.8	175.2	356.9	381.0	505.8
85°	21.9	24.1	28.5	35.0	41.6	50.4	67.9	83.2	113.9	205.8	212.4
87.5°	10.9	10.9	10.9	10.9	17.5	19.7	24.1	30.7	39.4	59.1	76.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	178°	179°	180°	181°	182°	183°	184°	185°	186°	187°	188°
0°	7296.5	7296.5	7296.5	7296.5	7296.5	7296.5	7296.5	7296.5	7296.5	7296.5	7296.5
2.5°	7274.6	7305.2	7331.5	7338.1	7338.1	7342.5	7349.0	7353.4	7357.8	7362.2	7357.8
5°	7261.4	7294.3	7316.2	7322.8	7322.8	7335.9	7346.8	7360.0	7366.6	7366.6	7362.2
7.5°	7228.6	7252.7	7281.1	7298.7	7300.9	7322.8	7342.5	7340.3	7349.0	7353.4	7364.4
10°	7184.8	7184.8	7233.0	7246.1	7257.1	7281.1	7287.7	7300.9	7331.5	7335.9	7364.4
12.5°	7162.9	7141.0	7197.9	7204.5	7241.7	7211.1	7250.5	7263.6	7233.0	7274.6	7219.8
15°	7064.4	7090.6	7081.9	7101.6	7167.3	7132.2	7239.5	7204.5	7283.3	7189.2	7355.6
17.5°	6983.3	6979.0	7014.0	7031.5	7044.6	7119.1	7147.6	7187.0	7217.6	7191.4	7257.1
20°	6924.2	6889.2	6915.4	6935.2	6981.1	7038.1	7055.6	6996.5	7099.4	7274.6	7316.2
22.5°	6812.5	6788.4	6819.1	6819.1	6889.2	6880.4	6946.1	6908.9	7005.2	7208.9	7421.3
25°	6661.4	6663.6	6696.5	6735.9	6749.0	6847.6	6882.6	6930.8	7051.2	7294.3	7423.5
27.5°	6508.1	6495.0	6514.7	6595.7	6663.6	6735.9	6746.8	6911.1	7075.3	7241.7	7355.6
30°	6354.9	6341.7	6354.9	6414.0	6495.0	6543.2	6663.6	6882.6	7035.9	7149.8	7257.1
32.5°	6190.6	6177.5	6208.1	6251.9	6394.3	6400.8	6639.5	6845.4	6965.8	7049.0	7029.3
35°	6015.4	5997.9	6026.4	6094.3	6225.7	6273.8	6523.5	6676.8	6812.5	6851.9	6760.0
37.5°	5805.2	5774.6	5809.6	5903.8	6041.7	6181.9	6389.9	6567.3	6639.5	6534.4	6424.9
40°	5586.2	5564.3	5625.6	5673.8	5835.9	6030.8	6269.5	6394.3	6348.3	6227.8	6107.4
42.5°	5391.3	5345.3	5400.1	5492.1	5676.0	5897.2	6089.9	6160.0	6050.5	5873.1	5732.9
45°	5152.6	5097.9	5163.6	5286.2	5483.3	5735.1	5886.2	5862.1	5676.0	5522.7	5330.0
47.5°	4903.0	4837.3	4903.0	5049.7	5270.9	5538.1	5647.5	5538.1	5303.7	5111.0	4955.6
50°	4657.7	4581.1	4644.6	4865.8	5082.6	5288.4	5286.2	5073.8	4933.7	4723.4	4587.7
52.5°	4414.7	4305.2	4368.7	4609.6	4826.4	5060.7	4887.7	4690.6	4522.0	4338.0	4294.2
55°	4114.7	3996.4	4081.8	4432.2	4598.6	4736.6	4460.7	4287.7	4121.2	4029.3	3974.5
57.5°	3830.0	3700.8	3775.2	4189.1	4311.8	4346.8	4092.8	3847.5	3749.0	3718.3	3639.5
60°	3536.6	3389.8	3459.9	3937.3	4022.7	3880.4	3630.7	3440.2	3420.5	3359.2	3297.9
62.5°	3256.3	3094.2	3138.0	3624.2	3663.6	3405.2	3175.2	3124.9	3076.7	3015.4	2982.5
65°	2934.4	2765.7	2827.1	3291.3	3254.1	2921.2	2792.0	2781.1	2717.6	2667.2	2715.4
67.5°	2638.7	2439.5	2524.9	2927.8	2759.2	2487.6	2435.1	2408.8	2358.4	2386.9	1881.1
70°	2314.6	2097.8	2213.9	2535.8	2286.2	2106.6	2086.9	2047.5	2049.7	1629.2	1373.0
72.5°	1953.3	1765.0	1933.6	2106.6	1808.8	1756.2	1727.8	1723.4	1390.5	1129.9	1066.4
75°	1635.8	1445.3	1627.0	1692.7	1440.9	1405.9	1403.7	1160.6	913.2	871.5	851.8
77.5°	1276.7	1129.9	1302.9	1204.4	1105.9	1066.4	957.0	718.3	687.6	659.1	247.4
80°	860.6	871.5	972.3	829.9	788.3	672.3	529.9	508.0	438.0	175.2	138.0
82.5°	523.4	656.9	619.7	519.0	508.0	365.7	335.0	170.8	127.0	100.7	87.6
85°	271.5	332.9	319.7	282.5	210.2	188.3	105.1	81.0	65.7	50.4	41.6
87.5°	92.0	122.6	118.3	94.2	72.3	56.9	37.2	30.7	21.9	17.5	15.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	189°	190°	191°	192°	193°	194°	195°	196°	197°	198°	199°
0°	7296.5	7296.5	7296.5	7296.5	7296.5	7296.5	7296.5	7296.5	7296.5	7296.5	7296.5
2.5°	7353.4	7353.4	7349.0	7353.4	7355.6	7351.2	7351.2	7355.6	7357.8	7360.0	7370.9
5°	7364.4	7368.7	7375.3	7388.4	7390.6	7416.9	7427.9	7434.4	7441.0	7443.2	7427.9
7.5°	7388.4	7403.8	7416.9	7414.7	7399.4	7357.8	7344.7	7333.7	7353.4	7403.8	7462.9
10°	7410.3	7340.3	7208.9	7388.4	7333.7	7384.1	7533.0	7565.8	7666.6	7808.9	7850.5
12.5°	7259.2	7452.0	7493.6	7292.1	7664.4	7526.4	7690.6	7835.2	7876.8	8021.3	7933.7
15°	7421.3	7515.5	7579.0	7780.4	7758.5	7876.8	7922.8	7894.3	7900.9	7938.1	8036.6
17.5°	7419.1	7607.4	7649.0	7784.8	7876.8	7879.0	7865.8	7852.7	7887.7	7916.2	7857.1
20°	7546.1	7607.4	7688.5	7743.2	7760.7	7782.6	7824.2	7791.4	7725.7	7662.2	7635.9
22.5°	7482.6	7620.6	7690.6	7699.4	7688.5	7620.6	7559.3	7467.3	7436.6	7403.8	7414.7
25°	7495.7	7559.3	7550.5	7515.5	7469.5	7342.5	7311.8	7272.4	7213.3	7070.9	6941.7
27.5°	7401.6	7368.7	7329.3	7243.9	7160.7	7092.8	7016.2	6889.2	6784.1	6630.8	6573.8
30°	7243.9	7112.5	7016.2	6965.8	6884.8	6770.9	6654.9	6499.4	6365.8	6335.1	6306.7
32.5°	6941.7	6812.5	6733.7	6611.1	6473.1	6337.3	6203.8	6142.4	6114.0	6118.4	6092.1
35°	6633.0	6519.1	6400.8	6216.9	6114.0	5978.2	5930.0	5916.9	5890.6	5862.1	5831.5
37.5°	6304.5	6170.9	5993.5	5884.0	5781.1	5726.4	5702.3	5682.6	5636.6	5586.2	5551.2
40°	5987.0	5746.1	5647.5	5540.2	5509.6	5485.5	5450.5	5402.3	5338.8	5330.0	5314.7
42.5°	5562.1	5389.1	5303.7	5281.8	5244.6	5203.0	5172.4	5119.8	5093.5	5111.0	5124.2
45°	5159.2	5071.6	5043.2	5016.9	4946.8	4887.7	4868.0	4850.4	4872.3	4968.7	4738.8
47.5°	4832.9	4797.9	4762.9	4719.1	4653.4	4609.6	4629.3	4646.8	4666.5	3959.2	3613.2
50°	4550.4	4502.3	4447.5	4399.3	4359.9	4355.5	4458.5	4149.7	3475.2	3457.7	3107.4
52.5°	4241.7	4169.4	4136.6	4108.1	4125.6	4191.3	3468.7	3219.0	3087.6	2682.5	2503.0
55°	3908.8	3845.3	3845.3	3871.6	3777.4	3061.4	3024.1	2614.6	2367.2	2297.1	2268.7
57.5°	3576.0	3569.4	3606.6	3297.9	2778.9	2665.0	2240.2	2150.4	2111.0	2102.2	2056.2
60°	3271.6	3332.9	2789.8	2566.5	2231.4	2012.4	1951.1	1940.2	1898.6	1883.2	1841.6
62.5°	3028.5	2511.7	2338.7	1909.5	1797.8	1769.4	1736.5	1721.2	1684.0	1486.9	435.8
65°	2187.6	2067.2	1677.4	1605.1	1596.4	1554.8	1541.6	1386.2	326.3	219.0	186.1
67.5°	1651.1	1465.0	1414.6	1401.5	1359.9	1276.7	378.8	216.8	186.1	162.0	142.3
70°	1267.9	1235.1	1197.8	1167.2	343.8	214.6	186.1	157.7	135.8	120.4	109.5
72.5°	1038.0	1016.1	591.3	225.6	183.9	155.5	138.0	120.4	105.1	96.4	87.6
75°	812.4	225.6	186.1	155.5	133.6	113.9	100.7	89.8	81.0	74.5	67.9
77.5°	183.9	148.9	127.0	107.3	96.4	85.4	76.6	65.7	59.1	52.6	43.8
80°	113.9	98.5	83.2	76.6	65.7	54.7	48.2	43.8	35.0	32.8	28.5
82.5°	74.5	59.1	52.6	43.8	35.0	32.8	28.5	21.9	19.7	17.5	15.3
85°	32.8	28.5	24.1	19.7	15.3	13.1	10.9	8.8	8.8	8.8	8.8
87.5°	10.9	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	4.4	4.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	200°	205°	210°	215°	220°	225°	230°	235°	240°	245°	250°
0°	7296.5	7296.5	7296.5	7296.5	7296.5	7296.5	7296.5	7296.5	7296.5	7296.5	7296.5
2.5°	7375.3	7414.7	7452.0	7441.0	7401.6	7340.3	7322.8	7298.7	7316.2	7353.4	7368.7
5°	7427.9	7406.0	7484.8	7600.9	7789.2	7806.7	7938.1	7968.8	8073.9	8139.6	8137.4
7.5°	7502.3	7813.3	7942.5	8082.6	8146.1	8130.8	8150.5	8135.2	8111.1	8100.1	8087.0
10°	7881.2	8117.7	8165.8	8165.8	8067.3	7933.7	7876.8	7778.2	7581.2	7585.5	7552.7
12.5°	8102.3	8185.5	8071.7	7975.3	7579.0	7425.7	7259.2	7180.4	7134.4	7064.4	7090.6
15°	7986.3	7868.0	7800.1	7489.2	7246.1	6970.2	6974.6	6926.4	6876.0	6880.4	6847.6
17.5°	7815.5	7721.3	7239.5	7024.9	6906.7	6799.4	6779.7	6716.2	6683.3	6672.4	6670.2
20°	7581.2	7241.7	6882.6	6830.0	6687.7	6565.1	6545.4	6565.1	6665.8	6486.2	5877.5
22.5°	7307.4	6819.1	6714.0	6565.1	6468.7	6420.5	6541.0	5993.5	5165.8	5266.5	5159.2
25°	6843.2	6630.8	6451.2	6337.3	6326.4	6030.8	5025.6	4920.5	4388.4	4103.7	3784.0
27.5°	6503.8	6411.8	6223.5	6203.8	6061.4	4931.5	4408.1	3830.0	3617.6	3584.7	3514.7
30°	6297.9	6166.5	6052.7	5555.6	4837.3	3970.1	3536.6	3455.5	3418.3	3378.9	3317.6
32.5°	6050.5	5925.6	5980.4	4670.9	3856.3	3418.3	3330.7	3271.6	3203.7	3177.4	2956.3
35°	5798.6	5741.7	4673.1	3926.3	3315.4	3210.3	3144.6	3083.3	2452.6	593.4	201.5
37.5°	5529.3	5516.2	4200.1	3258.5	3105.2	3006.6	2820.5	582.5	138.0	94.2	70.1
40°	5319.1	4202.3	3319.8	3054.8	2930.0	2774.5	389.8	96.4	61.3	37.2	24.1
42.5°	5178.9	3779.6	2971.6	2866.5	2594.9	286.9	98.5	41.6	24.1	19.7	15.3
45°	3992.0	2984.7	2776.7	2667.2	328.5	98.5	56.9	19.7	15.3	13.1	8.8
47.5°	3683.3	2711.0	2588.4	582.5	109.5	52.6	39.4	13.1	8.8	8.8	8.8
50°	2789.8	2505.2	2060.6	142.3	70.1	37.2	28.5	8.8	8.8	8.8	6.6
52.5°	2446.0	2312.4	221.2	94.2	54.7	28.5	17.5	6.6	6.6	6.6	6.6
55°	2235.8	1467.2	131.4	72.3	46.0	26.3	10.9	6.6	6.6	6.6	4.4
57.5°	2045.3	197.1	96.4	61.3	41.6	24.1	6.6	6.6	6.6	6.6	4.4
60°	1734.3	142.3	78.8	54.7	39.4	21.9	6.6	6.6	6.6	6.6	6.6
62.5°	225.6	111.7	67.9	48.2	28.5	17.5	4.4	6.6	6.6	6.6	6.6
65°	164.2	87.6	61.3	32.8	17.5	6.6	4.4	6.6	6.6	6.6	6.6
67.5°	127.0	72.3	46.0	28.5	15.3	4.4	4.4	6.6	6.6	6.6	6.6
70°	100.7	61.3	37.2	24.1	13.1	4.4	4.4	6.6	6.6	6.6	6.6
72.5°	78.8	43.8	26.3	13.1	8.8	4.4	4.4	6.6	6.6	6.6	6.6
75°	59.1	35.0	19.7	10.9	4.4	4.4	4.4	6.6	6.6	6.6	6.6
77.5°	39.4	21.9	15.3	8.8	8.8	8.8	10.9	10.9	6.6	6.6	6.6
80°	26.3	15.3	10.9	10.9	10.9	8.8	10.9	10.9	6.6	10.9	6.6
82.5°	13.1	10.9	10.9	8.8	8.8	6.6	8.8	8.8	8.8	8.8	6.6
85°	8.8	6.6	6.6	6.6	6.6	6.6	6.6	6.6	8.8	8.8	6.6
87.5°	4.4	4.4	4.4	4.4	6.6	6.6	6.6	6.6	8.8	8.8	6.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	255°	260°	265°	270°	275°	280°	285°	290°	295°	300°	305°
0°	7296.5	7296.5	7296.5	7296.5	7296.5	7296.5	7296.5	7296.5	7296.5	7296.5	7296.5
2.5°	7349.0	7355.6	7338.1	7432.2	7384.1	7388.4	7408.2	7357.8	7368.7	7333.7	7309.6
5°	8146.1	8159.3	8172.4	8176.8	8185.5	8196.5	8183.4	8176.8	8163.6	8119.8	8073.9
7.5°	8021.3	8006.0	7999.4	8008.2	8023.5	8030.1	8019.1	8034.4	8091.4	8115.5	8130.8
10°	7364.4	7294.3	7342.5	7335.9	7281.1	7465.1	7414.7	7443.2	7462.9	7664.4	7787.0
12.5°	7051.2	7095.0	7011.8	6970.2	7024.9	7062.2	7099.4	7020.6	7130.0	7079.7	7241.7
15°	6788.4	6762.2	6753.4	6755.6	6744.6	6797.2	6810.3	6827.9	6843.2	6911.1	6937.3
17.5°	6670.2	6714.0	6731.5	6744.6	6722.7	6698.7	6674.6	6639.5	6650.5	6633.0	6683.3
20°	5468.0	5321.3	5312.5	5397.9	5303.7	5356.3	5483.3	6333.0	6304.5	6635.2	6523.5
22.5°	4563.6	4425.6	4307.4	4204.5	4351.2	4412.5	4649.0	4916.1	5349.7	5281.8	5752.7
25°	3727.1	3676.7	3646.0	3630.7	3641.7	3637.3	3689.8	3814.7	4011.7	4476.0	5076.0
27.5°	3486.2	3462.1	3451.2	3416.1	3442.4	3433.6	3475.2	3501.5	3560.6	3606.6	3801.5
30°	3295.7	3267.2	3247.5	3210.3	3236.6	3238.7	3251.9	3319.8	3343.9	3383.3	3444.6
32.5°	1204.4	709.5	665.7	632.9	692.0	902.2	1583.2	2767.9	3157.7	3188.4	3258.5
35°	118.3	98.5	87.6	87.6	89.8	98.5	131.4	346.0	632.9	2446.0	3061.4
37.5°	46.0	39.4	32.8	30.7	32.8	37.2	50.4	65.7	89.8	186.1	829.9
40°	19.7	17.5	15.3	15.3	15.3	15.3	17.5	21.9	32.8	61.3	96.4
42.5°	13.1	10.9	10.9	10.9	10.9	10.9	10.9	10.9	15.3	19.7	39.4
45°	8.8	6.6	6.6	6.6	6.6	6.6	6.6	6.6	8.8	10.9	17.5
47.5°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	8.8
50°	6.6	6.6	6.6	6.6	4.4	6.6	4.4	6.6	6.6	6.6	6.6
52.5°	6.6	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	6.6	6.6
55°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	6.6
57.5°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
60°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
62.5°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	6.6	4.4
65°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	6.6	4.4
67.5°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
70°	6.6	6.6	4.4	6.6	4.4	4.4	6.6	6.6	6.6	4.4	4.4
72.5°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	13.1	8.8
75°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	10.9	13.1
77.5°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	10.9	10.9
80°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	8.8	8.8
82.5°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	8.8	8.8
85°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
87.5°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	310°	315°	320°	325°	330°	335°	340°	341°	342°	343°	344°
0°	7296.5	7296.5	7296.5	7296.5	7296.5	7296.5	7296.5	7296.5	7296.5	7296.5	7296.5
2.5°	7268.0	7265.8	7311.8	7346.8	7333.7	7346.8	7362.2	7364.4	7368.7	7351.2	7344.7
5°	7986.3	7918.4	7787.0	7692.8	7583.3	7384.1	7285.5	7296.5	7298.7	7292.1	7300.9
7.5°	8124.2	8117.7	8071.7	8052.0	7977.5	7835.2	7607.4	7568.0	7471.7	7410.3	7360.0
10°	7778.2	7935.9	7977.5	8047.6	8091.4	8065.1	7872.4	7843.9	7782.6	7712.5	7727.9
12.5°	7403.8	7533.0	7539.5	7920.6	8006.0	8014.7	7940.3	7979.7	7988.5	7830.8	7738.8
15°	6943.9	7005.2	7134.4	7489.2	7747.6	7909.6	7957.8	7979.7	7872.4	7865.8	7828.6
17.5°	6742.5	6781.9	6841.0	7040.3	7432.2	7670.9	7874.6	7859.3	7900.9	7870.2	7776.0
20°	6488.4	6521.3	6626.4	6727.1	6919.8	7237.4	7618.4	7646.8	7701.6	7695.0	7721.3
22.5°	6484.1	6368.0	6385.5	6464.3	6665.8	6950.5	7355.6	7449.8	7484.8	7508.9	7537.4
25°	5143.9	6065.8	6234.4	6284.8	6416.2	6582.6	7060.0	7095.0	7160.7	7268.0	7346.8
27.5°	4456.3	5082.6	5757.0	6107.4	6190.6	6328.6	6613.3	6665.8	6889.2	6915.4	7038.1
30°	3516.8	4000.8	5008.1	5851.2	5989.2	6085.5	6287.0	6392.1	6488.4	6593.5	6722.7
32.5°	3308.8	3385.5	3943.9	4841.7	5914.7	5842.4	5991.3	6054.8	6160.0	6251.9	6346.1
35°	3118.3	3170.9	3289.1	3965.8	4817.6	5643.2	5743.9	5785.5	5844.6	5914.7	5982.6
37.5°	2919.0	2997.9	3078.9	3260.6	4456.3	5485.5	5483.3	5531.5	5566.5	5625.6	5682.6
40°	529.9	2752.6	2884.0	3002.2	3455.5	4375.3	5238.0	5259.9	5284.0	5321.3	5380.4
42.5°	85.4	459.9	2702.2	2816.1	2945.3	3917.6	5126.4	5036.6	5021.3	5047.5	5100.1
45°	43.8	111.7	543.1	2630.0	2746.0	3124.9	4191.3	4881.1	4865.8	4815.4	4826.4
47.5°	32.8	70.1	133.6	908.8	2570.8	2682.5	3867.2	3825.6	4116.9	4675.3	4589.9
50°	28.5	48.2	78.8	186.1	2270.8	2470.1	2978.2	3479.6	3632.9	3652.6	4322.7
52.5°	26.3	32.8	56.9	120.4	477.4	2284.0	2421.9	2597.1	2855.5	3409.5	3396.4
55°	24.1	30.7	48.2	81.0	166.4	2058.4	2200.8	2233.6	2288.4	2553.3	2903.7
57.5°	13.1	28.5	46.0	70.1	124.8	376.6	1997.1	2023.4	2067.2	2078.1	2203.0
60°	6.6	26.3	41.6	61.3	92.0	175.2	1795.7	1826.3	1852.6	1857.0	1896.4
62.5°	4.4	24.1	35.0	56.9	76.6	124.8	424.8	867.2	1648.9	1648.9	1694.9
65°	4.4	17.5	21.9	37.2	70.1	102.9	179.6	208.0	405.1	996.4	1486.9
67.5°	4.4	6.6	19.7	30.7	52.6	78.8	131.4	153.3	183.9	210.2	389.8
70°	4.4	4.4	17.5	19.7	32.8	59.1	94.2	107.3	124.8	142.3	164.2
72.5°	4.4	4.4	15.3	15.3	21.9	39.4	72.3	78.8	89.8	100.7	116.1
75°	10.9	8.8	13.1	13.1	15.3	30.7	54.7	61.3	65.7	74.5	85.4
77.5°	10.9	10.9	10.9	10.9	10.9	19.7	35.0	39.4	46.0	50.4	59.1
80°	8.8	8.8	8.8	10.9	10.9	13.1	21.9	24.1	26.3	32.8	35.0
82.5°	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	13.1	15.3	19.7
85°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	8.8	8.8	8.8	8.8
87.5°	6.6	6.6	6.6	4.4	4.4	6.6	6.6	6.6	6.6	6.6	6.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	345°	346°	347°	348°	349°	350°	351°	352°	353°	354°	355°
0°	7296.5	7296.5	7296.5	7296.5	7296.5	7296.5	7296.5	7296.5	7296.5	7296.5	7296.5
2.5°	7342.5	7329.3	7318.4	7324.9	7305.2	7296.5	7303.0	7305.2	7309.6	7320.6	7322.8
5°	7322.8	7318.4	7338.1	7349.0	7344.7	7349.0	7349.0	7340.3	7327.1	7335.9	7316.2
7.5°	7309.6	7281.1	7259.2	7263.6	7241.7	7268.0	7292.1	7327.1	7338.1	7338.1	7316.2
10°	7535.2	7504.5	7381.9	7298.7	7243.9	7195.7	7309.6	7193.6	7248.3	7040.3	7279.0
12.5°	7721.3	7762.9	7708.2	7480.4	7441.0	7296.5	7379.7	7237.4	7195.7	6957.1	7033.7
15°	7795.8	7716.9	7699.4	7635.9	7550.5	7508.9	7285.5	7261.4	7193.6	7219.8	7119.1
17.5°	7730.1	7769.5	7716.9	7675.3	7587.7	7489.2	7355.6	7237.4	7143.2	6933.0	7110.3
20°	7666.6	7719.1	7561.4	7587.7	7596.5	7482.6	7412.5	7314.0	7195.7	6998.7	6845.4
22.5°	7561.4	7524.2	7537.4	7497.9	7465.1	7480.4	7384.1	7316.2	7116.9	7027.1	6819.1
25°	7390.6	7377.5	7412.5	7408.2	7329.3	7303.0	7254.9	7182.6	7103.8	6959.2	6788.4
27.5°	7112.5	7180.4	7241.7	7270.2	7228.6	7158.5	7132.2	7090.6	7035.9	6889.2	6762.2
30°	6819.1	6895.7	6965.8	7027.1	7064.4	7033.7	7009.6	6985.5	6902.3	6806.0	6663.6
32.5°	6484.1	6584.8	6681.1	6755.6	6836.6	6860.7	6843.2	6823.5	6753.4	6665.8	6551.9
35°	6096.5	6234.4	6374.6	6508.1	6543.2	6600.1	6657.0	6624.2	6587.0	6499.4	6394.3
37.5°	5768.0	5866.5	5967.3	6135.9	6258.5	6330.8	6431.5	6444.6	6381.1	6339.5	6201.6
40°	5428.6	5518.3	5665.1	5763.6	5932.2	6015.4	6122.7	6170.9	6155.6	6131.5	6011.1
42.5°	5161.4	5205.2	5301.6	5389.1	5555.6	5726.4	5820.5	5873.1	5927.8	5908.1	5846.8
45°	4876.7	4916.1	4949.0	5025.6	5187.7	5338.8	5454.8	5533.7	5632.2	5678.2	5603.7
47.5°	4594.2	4605.2	4644.6	4708.1	4804.5	4920.5	5115.4	5233.7	5325.6	5415.4	5367.2
50°	4377.4	4338.0	4344.6	4384.0	4462.9	4576.7	4716.9	4883.3	4988.4	5097.9	5108.8
52.5°	3825.6	4145.3	4068.7	4090.6	4132.2	4186.9	4333.7	4497.9	4627.1	4721.2	4815.4
55°	3210.3	3273.8	3889.1	3801.5	3827.8	3876.0	3943.9	4108.1	4232.9	4364.3	4495.7
57.5°	2489.8	2962.8	2986.9	3556.3	3543.1	3547.5	3604.4	3698.6	3823.4	3987.7	4099.3
60°	1935.8	2135.1	2522.7	2719.8	3219.0	3236.6	3269.4	3324.1	3431.4	3586.9	3764.3
62.5°	1708.1	1734.3	1872.3	2167.9	2492.0	2884.0	2954.1	2962.8	3011.0	3166.5	3372.3
65°	1500.0	1517.5	1559.2	1589.8	1861.3	2240.2	2577.4	2632.2	2662.8	2754.8	2930.0
67.5°	1033.6	1307.3	1344.5	1366.4	1392.7	1567.9	1986.2	2264.3	2299.3	2380.3	2533.6
70°	199.3	413.9	1132.1	1156.2	1169.4	1208.8	1276.7	1719.0	1951.1	2027.8	2097.8
72.5°	135.8	159.9	192.7	455.5	963.5	985.4	1000.7	1057.7	1449.7	1673.0	1710.2
75°	98.5	109.5	129.2	159.9	197.1	641.6	794.9	823.4	851.8	1175.9	1364.3
77.5°	70.1	78.8	87.6	102.9	120.4	155.5	223.4	615.3	643.8	659.1	930.7
80°	39.4	48.2	59.1	67.9	76.6	87.6	113.9	142.3	317.5	464.2	488.3
82.5°	21.9	26.3	30.7	37.2	41.6	52.6	63.5	76.6	100.7	148.9	315.3
85°	10.9	10.9	10.9	15.3	17.5	24.1	28.5	32.8	46.0	63.5	87.6
87.5°	6.6	6.6	8.8	8.8	8.8	10.9	10.9	10.9	13.1	19.7	28.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	356°	357°	358°	359°	360°
0°	7296.5	7296.5	7296.5	7296.5	7296.5
2.5°	7324.9	7318.4	7318.4	7344.7	7338.1
5°	7311.8	7305.2	7303.0	7331.5	7318.4
7.5°	7300.9	7276.8	7270.2	7296.5	7285.5
10°	7257.1	7239.5	7250.5	7241.7	7237.4
12.5°	7182.6	7171.7	7125.7	7130.0	7167.3
15°	7049.0	7092.8	7014.0	7084.1	7099.4
17.5°	6803.8	6902.3	6979.0	7020.6	7027.1
20°	6913.3	6946.1	6906.7	6908.9	6935.2
22.5°	6770.9	6786.2	6797.2	6784.1	6841.0
25°	6543.2	6484.1	6611.1	6637.3	6729.3
27.5°	6473.1	6424.9	6484.1	6479.7	6556.3
30°	6416.2	6260.7	6287.0	6328.6	6422.7
32.5°	6335.1	6089.9	6063.6	6155.6	6260.7
35°	6192.8	5960.7	5899.4	5958.5	6116.2
37.5°	6072.4	5781.1	5658.5	5737.3	5943.2
40°	5892.8	5641.0	5450.5	5520.5	5763.6
42.5°	5678.2	5520.5	5227.1	5275.3	5553.4
45°	5461.4	5321.3	5010.3	5034.4	5365.1
47.5°	5240.2	5111.0	4784.8	4789.1	5124.2
50°	5023.4	4852.6	4583.3	4506.6	4868.0
52.5°	4741.0	4583.3	4379.6	4254.8	4624.9
55°	4473.8	4296.4	4147.5	3954.8	4349.0
57.5°	4213.2	4016.1	3915.4	3667.9	4035.8
60°	3856.3	3762.1	3613.2	3376.7	3753.3
62.5°	3490.6	3459.9	3308.8	3063.6	3405.2
65°	3063.6	3135.8	2980.3	2770.1	3043.8
67.5°	2660.6	2789.8	2619.0	2489.8	2695.7
70°	2231.4	2380.3	2284.0	2238.0	2325.6
72.5°	1808.8	1953.3	1962.1	1929.2	1957.7
75°	1397.1	1557.0	1644.6	1594.2	1600.8
77.5°	1059.9	1136.5	1232.9	1272.3	1263.5
80°	654.8	788.3	867.2	948.2	919.7
82.5°	330.7	442.3	538.7	626.3	584.7
85°	138.0	177.4	247.4	326.3	313.1
87.5°	41.6	70.1	74.5	105.1	98.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)